STATINTL

[redacted]

ELEVENTH MONTHLY PROGRESS REPORT

[redacted]

IMAGE QUALITY METER
17 April through 17 May 1961

During the period covered by this report, the fabrication of the instrument was completed, with the exception of the potentiometer which provides the oscilloscope sweep voltage, the foot pedal assembly for lowering the platen, the vacuum platen, the drive motor for the rocking mirror assembly, and the spot mask reticles. These itmes will be added as soon as received from the vendors involved. Considerable difficulty was encountered in the optical alingement and adjustment; it became necessary to add light shielding assemblies in order to minimize problems introduced by stray light. Some modifications were required in the condensing system positioning in order to properly illuminate the spot mask reticles. Shielded wires have been added to some of the cabinet wiring to minimize electrical signal pickup. A cooling problem was encountered in the photomultiplier assembly; this is being alleviated by air ducts and a modification within the assembly which allows lower dissipation of heat.

The instrument is undergoing further testing and de-bugging, and will be delayed in its delivery of these unexpected difficulties.

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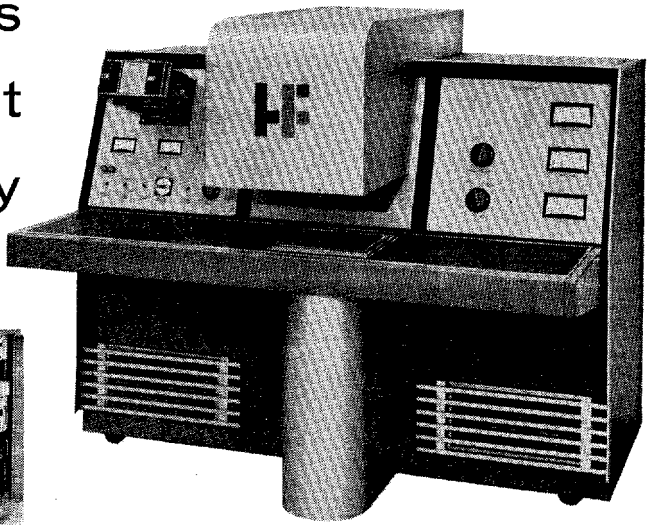
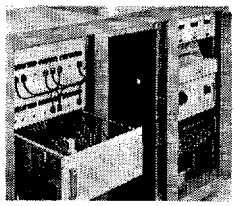
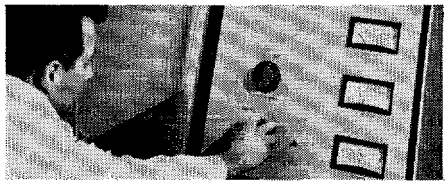
Approved For Release 2001/07/16 : CIA-RDP78B04747A001800100049-9

Electronic Instrument Gives Precision Readout of Photo Quality

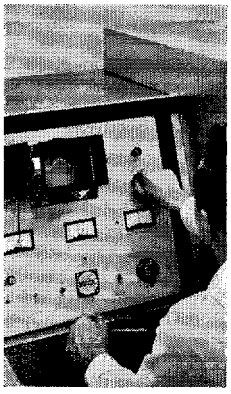




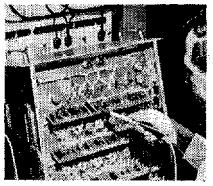
Compartmentalized Access



Direct Reading



Photographic Record



Easy Circuit Testing

The new Houston Fearless electronic *Image Quality Meter* accurately measures granularity, acutance and resolution of black and white photographic transparencies rapidly and automatically. Accommodates cut and roll film up to 18" wide.

Basic Evaluation Tool – The Image Quality Meter permits holding standards for controlled performance of all photographic systems – as basic to the photographic instrumentation field as the oscilloscope is to electronics. The most intricate systems can then be tested and evaluated precisely to the rigid standards established by this instrument.

How it Works – The film image is scanned with a moving spot of light; the light is collected in a photomultiplier tube and the input signal variations are then measured electronically with an analog computer. Results are observed on three meters (acutance, granularity, resolution). The microdensitometer trace on the oscilloscope may be photographically recorded at operator's option.

Carefully Engineered – Heavy duty circuitry is designed for easy access and quick testing. A massive steel frame immobilizes the optical system, fixing it permanently against mis-alignment due to shock and vibration. Console is on casters for easy movement about laboratory.

Write for Specifications – Orders are being accepted for early delivery. Write now for complete information on this remarkable new photographic instrument.

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